

Receiving Report

Date: 10/6/88
 Supplier: MAGNA

Batch No: M115347
 Dart P/O: 12080

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 106612 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Production/Admin: 10/6/88
 Date
 Received/Costing
 Initial

Location

Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAG002	Magna Stainless								
PO12080	1		M303B0.750X1.500 f	f	6/23/2010	6/28/2010	24.0000	\$32.50	0.0000	0	\$780.00
CAD	No		303 BAR .750" X 1.500" I15047	f	24.0000	DCUSER		\$780.00	0.0000	0	
	2		M303B2.000X1.750 f	f	6/23/2010	6/28/2010	24.0000	\$82.50	0.0000	0	\$1,980.00
	No		303 BAR 2" X 1.750" f I15047	f	24.0000	DCUSER		\$1,980.00	0.0000	0	
										Total Received Quantity:	48.0000
										Total Qty to Inspect (PO U/M):	0.0000
										Total Reject Quantity:	0.0000
										Total Receipt Value:	\$2,760.00
										Total Balance Due Quantity:	0.0000



Magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105

PACKING LIST

Page 1 of 1

I028998

I028998

SOLD TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

SHIP TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7



SPECIAL INSTRUCTIONS

****INCOMING****

Contact: CHANTAL LAVOIE

Ship Terms: PREPAID

MTR:Y

Currency		Sales Person	Customer Phone	Customer Fax	Customer PO	
CANADIAN DOLLARS		MAGNA SALES	(613) 632-5200	(613) 632-1053	12080	
Sales Order	Terms		Ship Via	Date Ordered	Date Required	Date Shipped
W031422	NET 30 DAYS		NIR:R-557065-1	06/16/10	06/28/10	06/28/10

Ordered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
2		PC	STAINLESS - LB 303 FLAT 3/4" X 1 1/2" X 12' LG			2
			94 LB / 2 PC	L040386	E212478	2
2		PC	303 FLAT 1 3/4" X 2" X 12' LG			2
			286 LB / 2 PC	L040387	E208306	2
MATERIAL IS PER ASTM A582						
with W031420 Bundles: 1						
				Approx	Weight:	380 LB

Received by: _____ Date: _____ Signature: _____

807303 - PO# P00225AM003

MONTANSTAHL
special profiles in steel

0.4339

Tel: +41 (0) 64 16 80 0
Fax: +41 (0) 64 16 80 4
Email: info@montanstahl.com

mill test certificate

Flat - ACD 0.75 x 1.5 inch 11-13'

Customer specs

size standards
PT 111

303

ASTM A582/A582M

807301-807309

Consignment Stock #3
(29886, 29560)

net weight
8642 lbs

execution
ACD
melting
EAF/AOD

8/10/06/20

E212478

E212478	C	Si	Mn	P	S	Ni	Cr	Mo	Ti	Al	N	Cu	Pb	V	Co
	0.059	0.81	1.70	0.032	0.269	8.56	17.71	0.35			0.022	0.63			0.10
yield strength															
Rm	Rp0.2				A5		Z		HB		KV				
98 ksi	66 ksi				46 %		55 %		168						

- We hereby confirm that the material certified in this document is conform to enclosed data sheet
- Material is produced in compliance with ROHS (2002/95/EC)
- Material free from Mercury and radioactive contamination



- Country of melt: Spain
- Country of manufacturing origin: Switzerland



20.10.2009

Inc 06-22-10

S00616PR047-1 MAGNA STAINLESS PO: P010523 Part #: 2.00PC 94.00LB

P010523 - E212478

28448



Montanstahl
CH - 6855 Stabio

PT111

DATA SHEET FOR ACD STAINLESS STEEL FLAT BARS IN
GRADES 303, 304 / 304L AND 316 / 316L

Applicable standards		Rev.	Grade		
			AISI - 303 ¹⁾ UNS - S30300	AISI - 304/304L UNS - S30400 UNS - S30400	AISI - 316/316L UNS - S31600 UNS - S31603
ASTM	A320/A320M	2003	X		X
	A484/A484M	2003a	X		X
	A582/A582M	1995b	X		X
	A276	2004		X	X
	A370-03a	2003	X	X	X
	A479/A479M	2004		X	X
AMS	5640U (type 1)	2007	X		X
	2241N	2003	X		
	5653F	2002			
	5648K	2002			X
	S 7720 A	1997			X
	5639H (type 1)	2002		X	X
	5647H	2002		X	
	2248E	1993		X	
	QQ S 763A	2003		X	X
	8A479 + S2.1	1998		X	X

Chemical values

Grade	C ⁽¹⁾	Si ⁽¹⁾	Mn	Ni	Cr	Mo	S ⁽¹⁾	P ⁽¹⁾	N ⁽¹⁾	Cu ⁽¹⁾	Co ⁽¹⁾	Zr ⁽¹⁾
303	0,15	1	2 ⁽¹⁾	8-10	17-19	0,6 ⁽¹⁾	0,35 ⁽¹⁾	0,15	0,1	0,75	0,1	0,60
304/304L	0,03	0,75	2 ⁽¹⁾	8-10,5	18-20	0,5 ⁽¹⁾	0,03	0,04	0,1	0,50	0,1	
316/316L	0,03	0,75	1-2	10-14	16-18	2-3	0,03	0,04	0,1	0,75	0,1	

⁽¹⁾ Maximum values

⁽²⁾ For thicknesses $\leq 0,25''$: $S_{min} = 0,20$

Mechanical values^{(1) (2)}

Grade	Thickness	TS ⁽¹⁾ [KSI]	YS ⁽¹⁾ [KSI]	EL ⁽¹⁾ [%]	RA ⁽¹⁾ [%]	HB ⁽¹⁾
303	Up to 0,5"	75	30	30	40	140-241
	Over 0,5"	75	30	35	50	223
304/304L	Up to 0,5"	90	45	30	40	140-223
	Over 0,5"	75	30	40	50	140-223
316/316L	Up to 0,5"	90	45	30	40	140-223
	Over 0,5"	75	30	30	40	140-223

⁽¹⁾ Maximum values; hardness is measured in centerline of width after removal of specific surface layer (see ASTM A320)

⁽²⁾ Minimum values

⁽³⁾ Cold drawn flat bars are not intentionally strain hardened but drawn to specific dimensional tolerances.

⁽⁴⁾ Cold drawn flat bars have a higher magnetic permeability than HIP flat bars.

- Solution annealed at 1050°C and water quenched
- Intergranular corrosion test according to ASTM A262 practices A, C & B (where applicable)
- Micro and macro structure: OK
- Grain size per ASTM E112: 5-7
- No welding or weld repairs
- Material free of contamination from mercury or metals liquid at ambient temperature

00 21/01/2008 SPECIFICA DI
VENOITA

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Inc 06-22-10

S00616PR047-1 MAGNA STAINLESS PO: P010523 Part #:

2.00PC

94.00LB

MONTANSTAHL

special profiles in steel

Via Gerretle 4
CH - 6855 Stabio
Tel.: ++41-91-6416800
Fax: ++41-91-6473718
email: info@montanstahl.com

003095

Werkabnahmezertifikat / mill test certificate
certificat d'essais / certificato di collaudo

MONTANSTAHL AG, Via Gerretle 4, CH-6855 Stabio
Firma / company / maison / ditta

Produkt / product / produit / prodotti
Flat - ACD 1.78 x 2 Inch 11-13'

Werkabnahmezertifikat nach:
mill test certificate according to: **Customer specs**
certificat d'essais selon:
certificato di collaudo secondo:

Auftrags-Nr.
order no.
commande n°
n° ordine

Maassnorm / size standards / norme dimensionale / normative dimensionale
PT 111

Nettogewicht / net weight / poids net / peso netto
2571 lbs

Stufe / grade / nuance / qualità
303

Ausführung / execution / état de livraison / esecuzione
ACD

Stahlnorm / steel standards / norme acciaio / normative qualità
ASTM A582/A582M

Bunde / bundles / fasci / fasci
776523, 776525, 776527

Erneuerung / renewal / fusione / fusione
EA/AD

Schmelze / melt / coulée / colata
E208306

	C	Si	Mn	P	S	Ni	Cr	Mo	Ti	Al	N	Cu	Pb	V	Co
	0.070	0.68	1.73	0.029	0.263	8.63	17.50	0.31			0.022	0.64			0.10
Zugfestigkeit tensile strength resistenza a trazione limite di trazione Rm	Streckgrenze yield strength limite d'elasticità limite di snervamento Rp 0.2%		Rp 1%		Dehnung elongation allungamento A5		Einschnürung area reduction strizione Z		Härte hardness durezza HB		Kerbschlagarbeit impact test resilienza KV				
95 ksi	65 ksi				48 %		57 %		164						

- We hereby confirm that the material certified in this document is conform to enclosed data sheet
- Material is produced in compliance with ROHS (2002/95/EC)
- Country of melt: Germany
- Country of manufacturing origin: Switzerland



Herstellerzeichen
Trade Mark
Signe du Producteur
Logo del produttore



Datum
Date
Data

15.09.2008

Der Werksschwerstündige
The Works' Inspector
L'Agent Réceptionnaire de l'Usine
Il certificatore

A. Kappeler

Inc 06-22-10

08449



Montanstahl
CH - 6855 Stabio

PT111

DATA SHEET FOR ACD STAINLESS STEEL FLAT BARS IN
GRADES 303, 304 / 304L AND 316 / 316L

Applicable standards		Rev.	Grade		
			AISI - 303 [®] UNS - S30300	AISI - 304/304L UNS - S30400 UNS - S30400	AISI - 316/316L UNS - S31600 UNS - S31601
ASTM	A320/A320M	2003	X		
	A484/A484M	2003a	X		X
	A582/A582M	1995b	X	X	X
	A276	2004			
	A370-03a	2003	X	X	X
	A479/A479M	2004		X	X
AMS	5640U (type 1)	2007	X		X
	2241N	2003	X		
	5653F	2002			
	5648K	2002			X
	S 7720 A	1997			X
	5639H (type 1)	2002			X
	5647H	2002		X	
	2248E	1993		X	
	QQ S 763A	2003		X	X
ASME	SA479 + S2.1	1998		X	X

Chemical values

Grade	C ⁽¹⁾	Si ⁽¹⁾	Mn	Ni	Cr	Mo	S ⁽¹⁾	P ⁽¹⁾	N ⁽¹⁾	Cu ⁽¹⁾	Co ⁽¹⁾	Zn ⁽¹⁾
303	0,15	1	2 ⁽¹⁾	8-10	17-19	0,6 ⁽¹⁾	0,35 ⁽²⁾	0,15	0,1	0,75	0,1	0,60
304/304L	0,03	0,75	2 ⁽¹⁾	8-10,5	18-20	0,5 ⁽¹⁾	0,03	0,04	0,1	0,50	0,1	
316/316L	0,03	0,75	1-2	10-14	16-18	2-3	0,03	0,04	0,1	0,75	0,1	

⁽¹⁾ Maximum values

⁽²⁾ For thicknesses ≤ 0.25": S_{min} = 0,20

Mechanical values^{(A) (B)}

Grade	Thickness	TS ^(B) [KSI]	YS ^(B) [KSI]	EL ^(B) [%]	RA ^(B) [%]	HB ⁽¹⁾
303	Up to 0.5"	75	30	30	40	140-241
	Over 0.5"	75	30	35	50	223
304/304L	Up to 0.5"	90	45	30	40	140-223
	Over 0.5"	75	30	40	50	140-223
316/316L	Up to 0.5"	90	45	30	40	140-223
	Over 0.5"	75	30	30	40	140-223

⁽¹⁾ Maximum values; hardness is measured in centerline of width after removal of specific surface layer (see ASTM A320)

⁽²⁾ Minimum values

^(A) Cold drawn flat bars are not intentionally strain hardened but drawn to specific dimensional tolerances.

^(B) Cold drawn flat bars have a higher magnetic permeability than HRAP flat bars.

- Solution annealed at 1050°C and water quenched
- Intergranular corrosion test according to ASTM A262 practices A, C & E (where applicable)
- Micro and macro structure: OK
- Grain size per ASTM E112: 5-7
- No welding or weld repairs
- Material free of contamination from mercury or metals liquid at ambient temperature

GO 21/01/2008 SPECIFICA DI
VENDITA

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DART
aerospaceDart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053**PURCHASE ORDER**Purchase Order ID **PO12080**

Purchase Order Date 6/14/10

PO Print Date 6/14/10

Page Number 1 of 1

Order From :

VC-MAG002

MAGNA STAINLESS
5775 RUE KIERAN
ST LAURENT, QC H4S 0A3
CA

Contact Name

Vendor Phone

800 363 6646

Vendor Fax

514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA**FAKED**
6/10/14

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303B0.750X1.500	303 BAR .750" X 1.500"	6/23/10 Yes	24.00 f	Yours ppd	\$32.5000	\$780.00
		Special Inst:	MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE				
2	M303B2.000X1.750	303 BAR 2" X 1.750"	6/23/10 Yes	24.00 f	Yours ppd	\$82.5000	\$1,980.00

Special Inst:

AS ABOVE

PO Total:

\$2,760.00

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr:

1

Change Date: 6/14/10

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable